GenCore version 4.5 Copyright (c) 1993 - 1998 Compugen Ltd.

nucleic search, using sw model OM nucleic

June 24, 1999, 01:22:20 ; Search time 67.43 Seconds (without alignments) 993.248 Million cell updates/sec Run on:

US-09-205-015-3 356

1 tcgaccctctggaacctatc.....atctggagctgaagaaattc 356 Title: Perfect score: Sequence:

IDENTITY_NUC Scoring table: 240622 seqs, 94065609 residues Searched:

N_Geneseq_34:* Database : Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	מו	ice enco	osteo		_	enic protei	OP-1	t of la		Human plasminogen		Mouse osteogenic p	ᅥ	hogen 1	CDNA.	CDNA.	mOP1-PP prepro for	e osteo	mOP-1 cDNA. Antibo		cDNA encoding mous	OP-1 CD	osteoge	osteoge	osteoge	1pha-N	himeric re	minal porti	Human HLA-B gene i	Ubiquitin-specific	Maize 2-acyltransf	P.denitrificans ge	Human CAPL gene. S	DNA encoding antig	Human CAPL genee.	Human brain Expres	Neisseria meningit		Human flt-3 ligand	uppr	۳ پ	t-3	44
SUMMARIES	ID	024517	053153	058051	06/312	045117	065392	045163	N80253	206594	T97303	028736	038945	038734	Q38858	056199	056232	972704	090623	T02598	T33442	197879	V10346	V15216	V19534	V32584	T67164	V55259	021546	V02668	041290	068267	Q13288	T33345	T75087	V41162	260002	V07381	N50475	079079	T12476	V44537		₹.
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	Len			1873																							•						• •	٠,		٠.								
d	Query Match	9.		9																																								
	Score	34.	₹.		٠,	<i>.</i>	٠.	•	m.	e,	m.	ď	ď	ά.	'n	ς.	ď	ď	ď	ä	ď	ä	ď	ď	ä	ų.	o.	o.	29		28.8						28	28	ζ.	Γ.	Ľ.	Ľ.	~	27.6
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Human flt-3 recept Human flt-3 recept ALIGNMENTS V44523 V44524 --461 27.6 27.6 44

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Apprincialities
Claim 1: page 34-36; 54pp; English.
A hybridisation probe specific to the C-terminus of the DNA encoding
A hybridisation probe specific to the C-terminus of the DNA encoding
A hybridisation probe specific to the C-terminus of the DNA encoding
A hybridisation probe specific to 134-1354 of 024518). The
labelled probe was used to screen ca. 700,000 phages of an oligo (dT)
primed 17.5 days p.c. mouse embryo 5' stretch cDNA $110 library. DNA
was prepared from the 5 recombinant phages which were purified by 3
rounds of screening. The DNA was subcloned and sequenced. Two
different DNA sequences were identified: mOP1 and mOP2. (mOP2 is
not described in this patent specification). The mOP1 DNA codes for
                                                                                                                                                                                                                                                                                                                                                                        Osteogenic polypeptides capable of inducing endochondral bone formation - useful for bone and cartilage repair, treatment of osteoarthritis and correction of skeletal and dental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            349 T;
                                                  09-NOV-1992 (first entry)
Murine osteogenic protein mOP1.
Mouse; embryo; mOP1-PP; osteogenesis; prepro protein; ss.
                                                                                                                                                                                                                                                    18-CCT-1991; U07654.
18-CCT-1990; US-600024.
(CRBA-) CREATIVE BIOMOLECULES INC.
Kuberasampath T, Oppermann H, Ozkaynak E, Rueger DC; WPI; 92-167101/20.
P-PSDB; R23832.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            499 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          590 C;
                                                                                                                          Location/Qualifiers
104. .1396
/*tag= a
/product= mop1.PP
/note= "mop1 (cDNA)"
              024517 standard; cDNA; 1873 BP. 024517;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            435 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1873 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a prepro-protein.
Sequence 1873 1
                                                                                                                                                                                                                                            30-APR-1992
024517,
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0; Gaps Query Match 9.6%; Score 34.2; DB 1; Length 1873; Best Local Similarity 58.3%; Pred. No. 0.15; Matches 60; Conservative 0; Mismatches 43; Indels 0;

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121 gecaaccatgactcagtgcttctggaggccaacaggacttctg 163 ò

053153 standard; cDNA; 1873 BP. 05-JUN-1994 (first entry) Sequence encoding murine osteogenic protein OPI. Osteogenic protein; bone; cartilage; matrix; osteoarthritis; repair; vascularisation; mineralisation; differentiation; ss. Mus musculus. Q53153/c

N

Location/Qualifiers
104. 1393
/*tag a /product- Osteogenic protein OP1.

US5266683-A.

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rereducing the compositions and infant formula capable of enhancing tissue morphogenesis, development and reapable of enhancing tissue morphogenesis, development and viability, e.g. in infants, aged individuals and metabolic discreters, e.g. anorexia nervosa, etc.

disorders, e.g. anorexia nervosa, etc.

Murine osteogenic protein mOPI and proteins having at least 70% murine osteogenic protein mOPI and proteins having at least 70% morphogen-enriched nutritional formulations. The formulations are dietary compositions suitable for people at risk for tissue damage due to protein energy malnutrition or to altered metabolism and infant or juvenile formulations to enhance tissue development in an infant or juvenile.

Sequence 1873 BP; 435 A; 587 C; 502 G; 349 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 aagggtggaggcatgcagctgtggggtctgtgaaaacacttgagggagcagataactgg 120\,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Gaps
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Morphogens comprising an amino acid sequence sharing at least Morphogens comprising an amino acid sequence sharing at least GDF-1(fx), 60A(fx) and at least 80% homology with BMPS(fx), BMPS(fx) are useful for integrating an implanted with periodontal disease or injury.

Sequence 1873 BP; 435 A; 587 C; 502 G; 349 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9.6%; Score 34.2; DB 1; Length 1873; 58.3%; Pred. No. 0.15; tive 0; Mismatches 43; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 34.2; DB 1; Length 1873; Pred. No. 0.15; 0; Mismatches 43; Indels 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1375 GACCACCATGTTTCTGTACTTCTAGGTCGACATTAGAGCTG 1333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121 gocaaccatgactcagtgcttctggaggccaacaggacttctg 163
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Pang RHL, Rueger DC, Smart JE;
WPI: 94-118107/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers 104. .1396
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15-SEP-1993; U08742.
15-SEP-1992; US-945285.
04-MAR-1993; US-029335.
31-MAR-1993; US-040510.
(CREA-) CREATIVE BIOMOLECULES INC.
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/label= 0P-1
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Q67312 standard; DNA; 1873
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Best Local Similarity 58.3
Matches 60; Conservative
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94-065304/08
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New pure mammalian osteogenic proteins - induce cartilage and endochondral bone formation when in association with a matrix claim 15: Columns 131-136; 128pp; English.

The osteogenic protein when in association with a matrix can induce at the locus of an implant the full development cascade of endochondral bone formation including vascularisation, mineralisation and bone marrow differentiation. The osteogenic protein can also be used to repair both bone and cartilage in the treatment of osteoarthritis. This sequence encodes the pre-pro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              55-70.

Mouse osteogenic protein mOP1 cDNA.

Mouse osteogenic protein; mOP1; murine; morphogen;

mouse osteogenic protein; mOP1; murine; morphogens

infant food formulation; tissue morphogenesis; tissue development;

bone growth; morphogen-enriched nutritional product; ss.

Muridae.
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Pred. No. 0.15;
0; Mismatches 43; Indels 0
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104. .1393
/*tag= a
/function= osteogenic_protein
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Rueger DC, Tucker RF, Cohen CM, Pang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        587 C;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Oppermann H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               058051 standard; cDNA; 1873 BP
Q58051;
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58.38;
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Matches 60; Conservative
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31-JUL-1992; US-922813.
16-SEP-1992; US-946235.
04-MAR-1993; US-029335.
31-MAR-1993; US-040510.
                                                                                                                                                                                                                                             07-SEP-1990; US-579865.
18-OCT-1990; US-59543.
18-OCT-1990; US-600024.
04-DEC-1990; US-621849.
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US-923780.
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28-JAN-1992; US-827052.
21-FEB-1992; US-841646.
                                                                                                                                                         US-422699
                                                                                                                                                                                                                                                                                                                                                                                                   22-FEB-1991; US-660162
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                                                                                                                          17-OCT-1989; 17-OCT-1989; 122-FEB-1990; 120-AUG-1990;
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29-JUL-1993;
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Sequence

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Osteogenic protein mOP1-PP. Morphogenic protein; mOP-1; tissue morphogenesis; osteogenic protein; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 aagggtggaggcatgcagctgtgggggtctgtgaaaacacttgagggagcagataactgg 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Incorphogenesis in mammals frozen not represent the sequence given in Disclosure; Page 121-124; 164pp; English.

A novel mouse morphogenic protein, OP3, has the sequence given in Sequences were also provided for human osteogenic protein OP1 (G65391, R54936), muman OP2 (G65394, R54936), human OP2 (G65394, R54936), human OP2 (G63394, R54936), human OP2 (G63395), Generic sequences given in R54939-40 accommodate human OP2 (G63394, R54936), human OP2 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-MAR-1994.
16-SEP-1993; US-946238.
16-SEP-1993; US-946238.
04-MAR-1993; US-029335.
31-MAR-1993; US-040510.
31-MAR-1993; US-040510.
CORBA-) CREATIVE BIOMOLECULES INC.
COAD CM, Kuberasampath T, Oppermann H, Ozkaynak E;
Pang RHL, Rueger DC, Smart JE;
WRPI: 94-118148/14.
D-PSDB; R50237.
Use of morphogen(s) to induce liver regeneration - for repair of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9.6%; Score 34.2; DB 1; Length 1873; 58.3%; Pred. No. 0.15; tive 0; Mismatches 43; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A morphogenically active protein MOP-3 - for inducing tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Oppermann H, Ozkaynak E;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1375 GACCACCATGTTTCTGTACTTCTAGGTCCACATTAGAGCTG 1333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121 gccaaccatgactcagtgcttctggaggccaacaggacttctg 163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OP-1; OP-2; CBMP2; Vgl(fx); Vgr(fx); DPP(fx); GDF-1(fx); GOA(fx); BMP3(fx); BMP5(fx); BMP6(fx); GDF-1(fx); GOA(fx); morphogen; morphogenic protein; liver; regeneration; injury; cancer; integration; transplant; gene therapy; hepatic tissue; ss. Mus musculus.

Location/Qualifiers

ds 104. .1396
                                                                                                                                                                                                                                                                                  11-MAY-1994.
02-NOY-1993; U10520.
03-NOY-1992; US-971091.
04-MAR-1993; US-029335.
31-MAR-1993; US-040510.
(CREA.) CREATIVE BIOMOLECULES INC.
CORDOR CM, Kubersampath T, Opperma Pang RH, Rueger DC; WPI; 94-167392/20.
                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3/c
Q45163 standard; DNA; 1873 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag= a
/label= 0P-1
                                                                                                                                                                                  104. .1396
/*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             045163;
11-OCT-1994 (first entry)
Murine OP-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 58.33
Matches 60; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      P-PSDB; R54936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO9406449-A
                                                                                                                                                                                                                                                    WO9410203-A
                                                                                                               Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 045163
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Maintaining integrity of gastrointestinal lining using a maintaining integrity of gastrointestinal lining using a maintaining integrity of gastrointestinal lining ulceration, anso to inhibit modotherial cell proliferation and reduce side effects of cancer therapy.

Claim 35-36; Page 106-109; 151pp; English.

Claim 35-36; Page 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-109; 106-1
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                                                                          1435 AAAGGTGGCCCCCCCCCAAAGGTCAGGAAGAGAAGAGCTAGTGGCAGGCCCCG 1376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 aagggtggaggcatgcagctgtgggggtctgtgaaaacacttgagggagcagataactgg 120
                                        61 aagggtggaggcatgcagctgtgggggtctgtgaaaacacttgagggagcagataactgg 120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Murine OP-1.

OP-1; OP-2; CBMP2; Vgl(fx); Vgr(fx); DPP(fx);

OP-1; OP-2; CBMP2; Vgl(fx); BMP5(fx); BMP6(fx);

osteogenic protein; morphogen; morphogenic protein;

gastrointestinal tract; luminal lining; epithelial cell;

proliferation; ulcer; lesion; inflammation; regeneration;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ή
                                                                                                                                                                       Oppermann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 gocaaccatgactcagtgcttctggaggccaacaggacttctg 163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31-MAR-1993; US-040510.
(CREA-) CREATIVE BIOMOLECULES INC.
Charette MF, Cohen CM, Kuberasampath T, O
OZKAYDAK E, Pang RHL, Rueger DC, Smart JE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
104. .1396
/*tag= a
/label= OP-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q65392/c
ID Q65392 standard; cDNA; 1873 BP.
AC Q65392;
DT 15-OCT-1994 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                               Bb
                                                                                                                                                                                                                                                                                                                                              RESULT 5
0451177c
ID 0451117 standard; cDNA; 1873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11-OCT-1994 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15-SEP-1993; U08885.
15-SEP-1992; US-945286.
04-MAR-1993; US-029335.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     94-118121/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          P-PSDB; R50199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tissue; ss.
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO9406420-A.
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1794 TAACCCATGCACCTGTTTCTGGGGAGGGAGGATGGCCAGGCCAGGAGTTGGGCCACAT 1735
                                                                                                                                         1734 GAIGGGGGACATICACICIGCCACCIGCAGCACCCCIGIACIGGGGAGGGGIGGCCAGIG 1675
                                1854 AAAAATAAAAGGAAGCAGAAATCTGCTTCAATGAGTAAACAAGTCACCTACACTCCAAAA 1795
                                                            215 gctgattacaacctctggtgctgcctcccctcctgtttatctgaagggaaggccatgc 274
         aaacacttgagggagcagataactgggccaaccatgactcagtgcttctggaggccaaca 154
                                                                                                                                                                                                                                                                                           27-FEB-1991 (first entry)
Clone ECE3-1 sequence encodes Plasminogen Activator Inhibitor PAI-1.
Plasminogen Activator Inhibitor; fibrinolysis; liver transplants.
                                                                                                                                                                                                                                                                                                                                                                                    /product=PAI-1 preprotein
76. 199
/*tag= b
                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
76. .1284
                                                                                                                                                                                                 1674 CCACAGTGGACTCTGAGATG 1655
                                                                                                                                                                                                                                                        4/c
Q06594 standard; DNA; 2132 BP.
                                                                                                                                                                      275 ccaaagtgttcacagccagg 294
                                                                                                                                                                                                                                                                                                                                                                           /*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                    signal_peptide
                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        fibrinolysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO9013648-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                006594;
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               92
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The lamba 3 clone DNA or plasmid pPAI3 can be used to produce the t-pA inhibitor by recombinant DNA technology. The protein can be used in a solid phase assay for detection of endothelial PAI, and as an immunogen to raise antibodies for use as receptor molecules in other assay systems.

See also P80252-54.

Sequence 2944 BP; 734 A; 784 C; 728 G; 698 T:
                                                                                                                                                                                                                                                                                             1435 AAAGGTGTGGCCCCGCAAAGGTCAGGGTCTCAGGAAGAGCTAGTGGCAGGCCACAGGCCCG 1376
transplant tissue, in gene therapy etc.

Claim 42-42; Page 129-132; 176pp; English.

Morphogens comprising an amino acid sequence sharing at least
70% homology with OP-1, OP-2, CBMP2, Vgl(fx), Vgr(fx), DPP(fx),
GDF-1(fx), 60A(fx) are useful for maintaining liver function in
a mammal, including means for regenerating lost or damaged hepatic
tissue, means for regenerating lost or damaged hepatic
tissue and organ transplants, and means for correcting liver function
deficiencis, including means for enhancing diminished liver function
                                                                                                                                                                                                                                                                     61 aagggtggaggcatgcagctgtggggtctgtgaaaacacttgagggagcagataactgg 120
                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Diagnostic assays for tissue - and urokinase-type plasminogen inhibitor - and pure, recombinant human endothelial plasminogen activator inhibitor.
                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                 9.6%; Score 34.2; DB 1; Length 1873; 58.3%; Pred. No. 0.15; Live 0; Mismatches 43; Indels 0
                                                                                                                                   due to tissue injury or disease.
Use of BMP3(fx), BMP5(fx) and BMP6(fx) are included in the
                                                                                                                                                                                                                                                                                                                                       121 gecaaccatgactcagtgettetggaggecaacaggacttetg 163
                                                                                                                                                                             502 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                16-OCT-1990 (first entry)
Insert of lambda 3 encoding beta-PAI protein.
Endothelial plasminogen activator inhibitor; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-FEB-1988.
19-AUG-1987; U02053.
19-AUG-1986; US-897990.
19-AUG-1986; US-897990.
(SCRL-) Scripps Clinic and Research Foundation.
Loskutoff DJ, NY T, Sawdey M;
                                                                                                                                                                             587 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
1. .1156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /ttag b
13. 1153
14. 1153
7.ttag beta-PAI
2916. 2921
7.ttag d
/*tag e
                                                                                                                                                                                                                                                                                                                                                                                                           3/c
N80253 standard; cDNA; 2944 BP.
                                                                                                                                                                              435 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ๙
                                                                                                                                                                                                                      Query Match
Best Local Similarity 58.3
Matches 60; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *tag=
                                                                                                                                                                     disclosure.
Sequence 1873 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 88-063992/09.
P-PSDB; P82007.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           signal_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            polya_signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polya_signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                     N80253;
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Disclosure; Page 8; 49pp; English.

The sequence differs from previously published sequences only in the sequence differs from previously published sequence.

The 3UTR, but encodes an identical protein sequence.

A human umbilical cord endchelial cell cDNA library was screened with 4 oligonucleotide probes based on the known PAI-1 sequence. A county insert was identified in the most strongly positive clones.

It was inserted into prigls to give pECE3-1 with the sequence given here. To produce mature protein, the leader sequence given here. To produce mature protein, the leader sequence given here. To produce mature protein, with Apail and Nsil of Haeill.

There, To produce mature protein, the leader sequence given methylase treated pECE3-1 DNA. The resulting 1800bp fragment was attached to an adaptor (to restore the first 2, Met-Wal, amino acids), digested with NoI and inserted onto Ncol-Psil cleaved protein grant processes mature PAI-1 with the N-terminus Val-His-His which is useful in tests to identify the imappropriate fibrinolysis, eg, during liver transplant surgery.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                  New recombinant functional human plasminogen activator inhibitor and plasmid expression vectors for its prodn. in E. coli, used for assays of T-PA PAI-1 inhibitors and treatment of excessive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1; Length 2132;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 466 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9.4%; Score 33.6; DB 1; Length 2
48.0%; Pred. No. 0.24;
iive 0; Mismatches 104; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 548 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 616 C;
                                                                                                                                                                                                                        (DUPO ) DU PONT DE NEMOURS CO.
DAVIS GL, KRABD RM, REILIY IM, SISK WP;
WPI; 90-361483/48.
P-PSDB; R07986.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Inappropriate fibrinolysts, eg. du see also Q06590-Q06593 and R08411. Sequence 2132 BP; 502 A; 6
Query Match
Best Local Similarity 48.0
Matches 96; Conservative
                                                                                                                                 15-NOV-1990.
08-MAY-1990; U02452.
11-MAY-1989; US-350264.
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Gaps

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9.4%; Score 33.6; DB 1; Length 2944; llarity 48.0%; Pred. No. 0.27; Conservative 0; Mismatches 104; Indels 0.

Best_Local Similarity Matches 96; Conserv

Query Match

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us-09-205-015-3.rng

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Compans. for increasing progenitor cell population - contain a morphogen to induce proliferation, useful for inhibiting neophastic growth, inducing tissue repair and in diagnosis of tissue dysfunction tissue dysfunction busclosure; Page 98-100; 132pp; English.

Mature mOP1 is one of the preferred known morphogens which can be used in the manufacture of pharmaceuticals for inducing non-chondrogenic mammalian tissue growth, progenitor cell proliferation and hepatic tissue growth and for maintaining the phenotypic expression of differentiated cells in a mammal. Morphogens sharing at least 70% homology with mOP1 are included. This coding sequence was isolated from a mouse embryo.

Sequence 1873 BP; 435 A; 586 C; 502 G; 350 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1435 AAAGGTGTGGCCCCGCAAAGGTCAGGGTCTCAGGAAGAGCTAGTGGCAGCCACAGGCCCG 1376
  1866 GATGGGGGACATTCACTCTGCCACCTGCAGCACCCCTGTACTGGGGAGGGGTGGCCAGTG 1807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 aagggtggaggcatgcagctgtgggggtctgtgaaaacacttgagggagcagataactgg 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bone; loss; increase; fracture; post-menopausal; sentle; osteoporosis; hyperparathyroidism; skeletal microstructure defects; chronic renal failure; kidney disease; osteomalacia, vitamin D; deficiency-induced osteoporalia, osteoporosis; Paget's disease; bone mass; imbalance; resorption; formation; dialysis; calcium; phosphate; metabolism; murine; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9.2%; Score 32.6; DB 1; Length 1873; llarity 57.3%; Pred. No. 0.47; Conservative 0; Mismatches 44; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cohen CM, Kuberasampath T, Oppermann H, Pang RHL, Rueger DC; WPI; 92-331475/40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gccaaccatgactcagtgcttctggaggccaacaggacttctg
                                                                                                                                                                                                                       4b-FEB-1993 (first entry)
Murine osteogenic protein mOP1 coding sequence.
Morphogen; morphogenic protein; mouse; ss
Mus musculus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-JUL-1993 (first entry)
Mouse osteogenic protein 1 (mOP-1) gene.
                                                                                                                                                                                                                                                                                                                                                                                                        /*tag= a
/standard_name= mOP1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
104. .1393
                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
104. .1396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (CREA-) CREATIVE BIOMOLECULES INC.
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Q38945/c
ID Q38945 standard; cDNA; 1873 BP.
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/note= "mOP-1"
                                                                                                                                                                                                                  ΒP
                                                                                      1806 CCACAGTGGACTCTGAGATG 1787
                                                                                                                                                                                      6/c
Q28736 standard; cDNA; 1873
Q28736;
                                                  ccaaagtgttcacagccagg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17-SEP-1992.
11-MAR-1992; U01968.
11-MAR-1991; US-667274.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 59; Conserv
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                                                                                                                                                                  1926 TAACCCATGCACACTGTTTCTGGGGAGGGAGATGGCCAGGCCAGGAGAGTTGGGCCACAT 1867
1985 AAAAATAAAAGGAAGCAGAAATCTGCTTCAATGAGTAAACAAGTCACCTACACTCCAAAA 1926
                                                                                           1925 TAACCCATGCACACTGTTTCTGGGGAGGGAGTGGCCAGGCCAGGAGAGTTGGGCCACAT 1866
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1986 AAAAATAAAAGGAAGCAGAAATCTGCTTCAATGAGTAAACAAGTCACCTACACTACAAAA 1927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gctgattacaacctctggtgctgcctcccctctgtttatctgagagggaaggcatgc 274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             95 aaacacttgagggagcagataactgggccaaccatgactcagtgcttctggaggccaaca 154
                                                ggacttctgagtcatcctgtgggggtggaggtgggacaagggaaaggggtgaatggtact 214
                                                                                                                                           gotgattacaacctctggtgctgctccccctcctgtttatctgagaggaaggccatgc 274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Plasmingen activator-inhibitor type I mutant inhibits elastase - or has high affinity for vitronectin, for therapeutic inhibition of elastase or vitronectin-mediated cell attachment, migration etc. Disclosure: Page 91-95; I44pp; English.

This nucleotide sequence codes for wild-type human plasminogen activator inhibitor type (PAI-1) (see W31587). Novel mutants (see W36710-25) of the PAI-1 mature protein are claimed that inhibit elastase or other elastase-like proteases, or are inhibitors of vitronectin-dependent cell migration. The mutants are obtained by site-directed mutagenesis of the PAI-1 DNA sequence and expression in host cells, and have a range of therapeutic uses. Sequence 2876 BP; 706 A; 793 C; 726 G; 651 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human plasminogene activator inhibitor DNA.

Plasminogen activator inhibitor type 1; PAI-1; human;

Plasminogen activator inhibitor type 1; PAI-1; human;

cal abstase inhibitor; vitronectin; cell attachment; cell migration;

cell proliferation; emphyseme; adult respiratory distress syndrome;

acute lung inflammation; alpha 1-antitrypsin deficiency;

cystic fibrosis; atopic dermatitis; pancreatitis;

periodontal disease; arthritis; HIV; atherosclerosis; restenosis;

neointima; fibrosis; wound healing; tumour; metastasis; psorlasis;

thrombosis; angiogenesis; therapy; ds,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        155 ggacttctgagtcatcctgtgggggtggaggtgggacaaggggaaaggggtgaatggtact
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48.0%; Pred. No. 0.27;
Live 0; Mismatches 104; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
76. .1284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (AMNA-) AMERICAN NAT RED CROSS.
Lawrence DA, Stefansson SP;
WPI; 97-526399/48.
                                                                                                                                                                                                                                                                                 1805 CCACAGTGGACTCTGAGATG 1786
                                                                                                                                                                                                                                                                                                                                                                               3/c
197303 standard; DNA; 2876 BP.
                                                                                                                                                                                                                                      294
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76..144
/*tag= b
145..1281
/*tag= c
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                                                                                                                                                                                                                                   275 ccaaagtgttcacagccagg
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Matches 96; Conservative
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US-015299.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11-APR-1997;
12-APR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO9739028-A1
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Mus musculus
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                                                                                                                                                                                                                            Use of morphogenic or in-vivo morphogenic-stimulating agent - to prevent bone loss or increase, used for treating bone fractures, prevent bone loss or increase, used for treating bone fractures, post-menopausal or senile osteoporosis, hyperparathyroidism etc. bis closure; page 110-113; 162pp; English.

The sequence is that encoding mouse osteogenic protein 1 (mOP-1) at morphogenically active protein which may be used as part of a morphogenically active protein which may be used as part of a morphogenically active protein which may be used as part of a morphogenically active protein which may be used as part of a morphogenically active protein or other defects in skeletal cresults in bone fractures or other defects in skeletal corters or other kidney diseases, osteomalacia, vitamin D deficiency induced osteoporosis, osteopenia or osteoporosis, postmenopausal or senile osteoporosis, hyperparathyroidism and Paget's disease. The methods can be used for protecting individuals at risk for loss of bone mass such as postmenopausal females, aged individuals and individuals undergoing dialysis. The loss of bone mass may result from an imbalance in bone recorption or bone formation, an imbalance of calcium or phosphate individuals, and individuals or benefit individuals.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1435 AAAGGTGGCCCCCCCAAAGGTCAGGGTCTCAGGAAGAGCTAGTGGCAGCCACAGGCCCG 1376
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Murine pro-OP-1.
morphogenic; osteogenic protein; developmental cascade; mOP-1;
mouse; inflammation; anti-inflammatory; Transforming Growth Factor;
TGF-beta super-family; hippocampus; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
104. .1396
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977. .1393
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      44; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ozkaynak
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 501 G;
                                             30-AUG-1991; US-752764.
30-AUG-1991; US-752857.
30-AUG-1991; US-752867.
31-AUG-1992; US-923780.
(CREA-) CREATIVE BIOMOLECULES INC.
COhen CM, Kubersampath T, Oppermann H, Ozkaynak Pang RHL, Rueger DC, Smart JE;
WPI, 93-117208/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 32.6; DB 1;
Pred. No. 0.47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9.2%; Score 32.6; D. Local Similarity 57.3%; Pred. No. 0.47 tes 59; Conservative 0; Mismatches
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Cohen CM, Kuberasampath T, Oppermann H,
Pang RHL, Rueger DC, Smart JE;
WPI; 93-100652/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    587 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q38734/c
ID Q38734 standard; cDNA; 1873 BP.
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30-AUG-1991; US-752861.
30-AUG-1991; US-753059.
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28-AUG-1992; U07358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1873 BP;
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                           28-AUG-1992; U
30-AUG-1991; U
30-AUG-1991; U
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Best Local Si
Matches 59,
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Screening cpds. to determine ability to modulate effective conconorate screening cpds. to determine ability to modulate effective conconorate amorphogen - by assaying test tissue type cells for parameter indicative of a prodn. level change of morphogen

This sequence encodes the murine morphogen mOPI, isolated from an embryo. This morphogen is inactive when reduced but is active as an explosent. These morphogens are capable of stimulating proliferation of progenitor cell, stimulating the differentiated cells and supporting the growth and maintenance of differentiated cells, including the redifferentiation of fransformed cells. These morphogens may also be capable of inducing redifferentiation of committed cells under appropriate environmental conditions.

Sequence 1873 BP; 435 A; 589 C; 499 G; 350 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1435 AAAGGTGTGGCCCCGCAAAGGTCAGGGTCTCAGGAAGAGCTAGTGGCAGCCACAGGCCCG 1376
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 aagggtggaggcatgcagctgtgggggtctgtgaaaacacttgagggagcagataactgg 120
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Morphogen mOP1 coding sequence.
Morphogen, homodimer; stimulate; proliferation; progenitor cell;
differentiation; growth; redifferentiation; transformation; human;
mouse, Drosophila; Xenopus; committed cells; hippocampus; ss.
resulting tissue damage, e.g. in autoimmune diseases, diabetes, asthma, ischemia reperfusion injury, etc.
Claim 26; Page II4-I16; 165pp; Bragdish.
Osteogenic protein (OP)-1 is a preferred morphogen
for use in treating (Issue damage in e.g. inflammatory disease, autoimmune disease, arthritis, psoriasis, dermatitis, diabetes an emphysema. Proteins having at least 70% homology with OP-1 amino acid sequences can also be used. See R33399 for mature mOP-1.
Sequence 1873 BP; 435 A; 588 C; 500 G; 350 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Oppermann H, Ozkaynak E, Pang RHL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
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                                                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 1873;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              44; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                       44; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121 gocaaccatgactcagtgcttctggaggccaacaggacttctg 163
                                                                                                                                                                                                                                                                                                                                                                                   Score 32.6; DB Pred. No. 0.47; 0; Mismatches
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104. .1396
/*tag= a
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30-AUG-1991; US-752861.
(CREA-) CREATIVE BIOMOLECULES INC.
COHO CN, Kuberasampath T, Oppern
Rueger DC, Smart JE;
WPI; 93-100993/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q38858 standard; cDNA; 1873 BP Q38858;
                                                                                                                                                                                                                                                                                                                                                                                   Query Match 9.2%;
Best Local Similarity 57.3%;
Matches 59; Conservative 0
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Query Match
9.2%; Score 32.6; DB 1; Length 1873;
Best Local Similarity 57.3%; Pred. No. 0.47;
Matches 59; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

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Oy 121 gccaaccatgactcagtgcttctggaggccaacaggacttctg 163

Search completed: June 24, 1999, 01:22:24 Job time: 2660 sec

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